

EROSION CONTROL SPECIFICATIONS

- ADDITIONAL EROSION CONTROL SHALL BE INSTALLED AS DEEMED NECESSARY BY THE CITY INSPECTOR.
- SEE OTHER DRAWINGS OF THESE PLANS FOR ADDITIONAL STORMWATER AND EROSION CONTROL SPECIFICATIONS AND DETAILS.
- THE ROADWAY AND YARD FINISH GRADE SLOPES SHALL NOT BE STEEPER THAN 3 ON 1. THE FINISHED GRADE SLOPES SHALL BE IMMEDIATELY GRADED AND MULCHED.
- SHOULD ANY DISTURBED AREA REMAIN UNWORKED FOR MORE THAN 30 DAYS THEN THE AREA SHALL BE MULCHED OR TEMPORARILY SEEDDED WITH ANNUAL RYE. TOPSOIL SHALL BE PLACED, BE SEEDDED AND MULCHED WITHIN FIVE DAYS AFTER ACHIEVING FINAL GRADE. WINTER EARTHWORK SHALL BE ALLOWED BY DOUBLING THE RATE OF MULCH.
- THE EROSION CONTROL METHODS USED DURING CONSTRUCTION OF THE DEVELOPMENT SHALL PROCEED IN THE FOLLOWING SEQUENCE:
 - THE CONTRACTOR SHALL INSTALL AND MAINTAIN SILT FENCES, INLET PROTECTION AND OTHER EROSION CONTROL MEASURES, IF REQUIRED, AS ORDERED BY THE ENGINEER. THE EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AFTER EVERY RAINFALL UNTIL THE NEW IMPROVEMENTS ARE PAVED AND ALL DISTURBED AREAS HAVE BEEN GRASSSED. THE REPAIR OF THE EROSION CONTROL MEASURES WILL INCLUDE REMOVING ANY SEDIMENTATION. THE SEDIMENT MAY BE PLACED AS FILL IN THE LOW AREAS, IF APPROVED BY THE ENGINEER.
 - THE TOPSOIL SHALL BE REMOVED FROM THE AREAS TO BE GRADED AND STOCKPILED. A SILT FENCE SHALL BE PLACED CONTINUOUSLY AROUND THE BOTTOM OF THE PILE.
 - IN AREAS NEAR THE NEW CONSTRUCTION THE CONTRACTOR SHALL ENCLOSE THE TRUNKS OF TREES TO BE SAVED WITH WOODEN SNOW FENCING ALONG THE DRILLLINE TO PROTECT FROM INJURY.
 - THE SITE GRADING WILL THEN BE DONE, AND THE PIPELINES WILL BE INSTALLED IMMEDIATELY FOLLOWING GRADING. THE CONTRACTOR WILL INSTALL AND MAINTAIN INLET PROTECTION AROUND THE CATCH BASINS UNTIL THE ROADWAY HAS BEEN PAVED AND GRASS HAS BEEN ESTABLISHED ON THE SLOPES.
 - THE CONTRACTOR WILL TOPSOIL, SEED, AND MULCH THE DISTURBED AREAS WITHIN 5 DAYS OF ACHIEVING FINAL GRADE.
 - OPEN CUT AREAS SHALL BE MULCHED OUTSIDE OF ACTUAL WORK AREAS, AND SILT FENCE SHALL BE EMPLOYED TO CONFINE SHEET WASH AND RUNOFF TO THE IMMEDIATE OPEN AREA AS ORDERED BY THE ENGINEER.

STORM SYSTEM MAINTENANCE

SYSTEM MAINTENANCE IS IMPORTANT FOR TREATMENT AND CONTROL OF STORM RUNOFF FROM THE IMPERVIOUS SURFACES (ROAD, PARKING, AND WALKWAY). THE FOLLOWING ELEMENTS FORM THE MINIMUM REQUIREMENTS:

- THE OWNER (OR REPRESENTATIVE) SHALL PERFORM INSPECTIONS BI-ANNUALLY AND FOLLOWING SIGNIFICANT LARGED STORM EVENTS. THE FOLLOWING ITEMS SHALL BE REVIEWED: CONDITION OF THE VEGETATION, CONDITION OF THE DITCH SURFACES, DEPTH OF ACCUMULATED SEDIMENT (IF ANY), THE PRESENCE OF EROSION (IF ANY), CONDITION OF THE STORM PIPES, AND THE CONDITION OF THE PIPE INLETS AND OUTLETS. ANY OBSERVABLE DEGRADATION OF THE STORM SYSTEM SHALL BE NOTED.
- THE OWNER (OR REPRESENTATIVE) SHALL COMPLETE REPAIR OF ANY ITEMS, AS REQUIRED TO MAINTAIN OPTIMAL SYSTEM OPERATION. AT A MINIMUM, THE FOLLOWING ITEMS SHALL BE INCLUDED:
 - ANY EROSION GULLIES 6 INCHES OR DEEPER SHALL BE FILLED AND VEGETATION ESTABLISHED IN THE DISTURBED AREA.
 - SEDIMENT ACCUMULATED TO A DEPTH OF MORE THAN 6 INCHES IN THE ROAD DITCHES SHALL BE REMOVED AND DISPOSED OF IN AN UPLAND AREA THAT IS NOT WITHIN 100 FEET OF WATERS OF THE STATE. VEGETATION SHALL BE ESTABLISHED IN ALL DISTURBED AREAS.
 - VEGETATION SHALL BE ESTABLISHED AS NEEDED, IN AREAS OF BARE SOIL. THIS IS PARTICULARLY IMPORTANT IN FLOW AREAS WHERE VEGETATION PROVIDES SEDIMENT REMOVAL.
 - SILT FENCES SHALL BE USED IF NEEDED TO PREVENT EROSION AND AID IN THE ESTABLISHMENT OF VEGETATION. THESE TEMPORARY MEASURES SHALL BE REMOVED AFTER THE SITE IS STABILIZED AND THE RISK OF EROSION IS REDUCED.
 - THE GRASSSED AREAS SHALL BE MOWED AS NEEDED TO PREVENT THE ESTABLISHMENT OF WOODY VEGETATION.

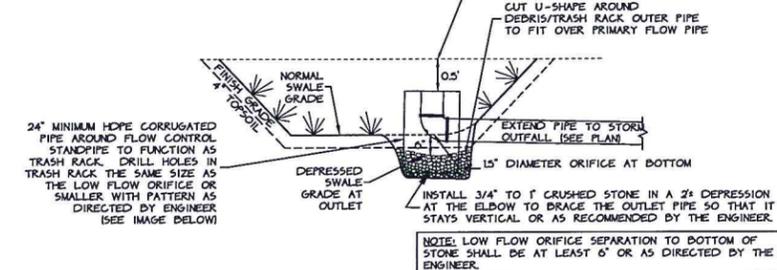


EXAMPLE OF AN OUTFLOW STRUCTURE

IMPORTANT STORM NOTES DURING CONSTRUCTION

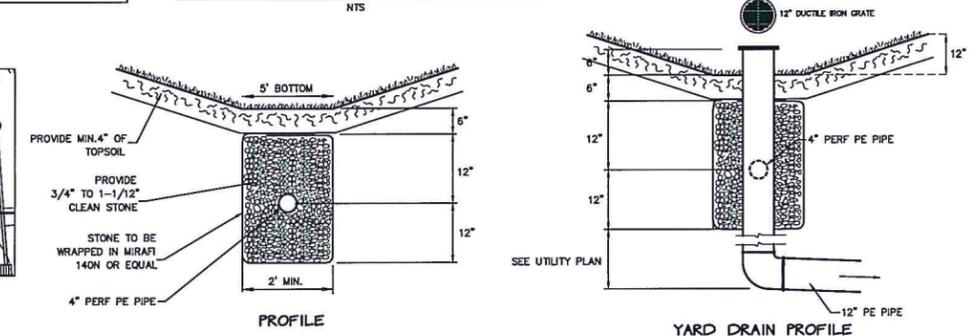
- Low flow orifice at bottom - Very important that there be at least 6" of space between the bottom of stone and invert of the orifice to prevent clogging.
- Top of standpipe shall be 6" below the top of system which shall be level elevation shown on plan. Pipe should be cut to length after installation of stone to ensure this requirement is met.
- The primary function of the outside pipe is to function as a trash rack (i.e. to prevent debris from clogging the low flow orifice). That is why the 6" of freeboard is so important - see note A above. The trash rack orifices shall be cut no longer than the low flow orifice specified on the plan - see detail. The orifices can be cut with a hole saw or spade bit. Any plastic bars should be removed with a file or whatever mechanism necessary to ensure holes are smooth to lessen the chances of clogging.

IMPORTANT NOTE: MOST OUTFLOW DEVICES WORK BEST IF PLACED DIRECTLY AT THE END OF THE SWALE SO THE HORIZONTAL PORTION OF THE OUTFLOW PIPE HAS THE PROPER COVER AND THE ELBOW SHALL BE PLACED LOW ENOUGH TO ENSURE PROPER DRAINAGE BY THE LOW FLOW ORIFICE



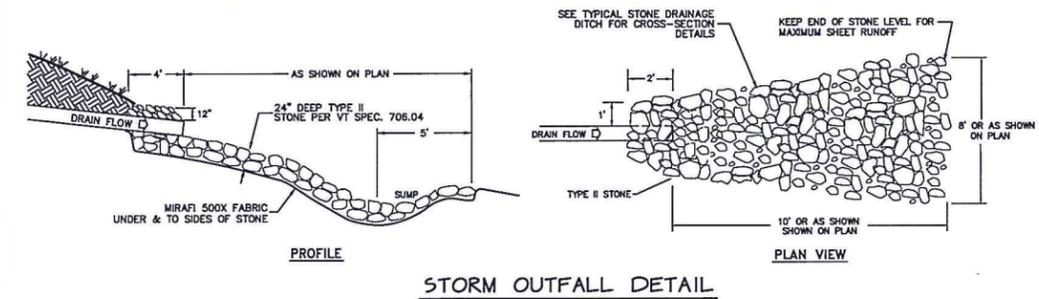
PROFILE

RAIN GARDEN OUTFLOW DEVICE

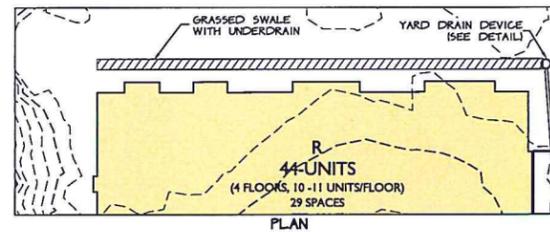


PROFILE

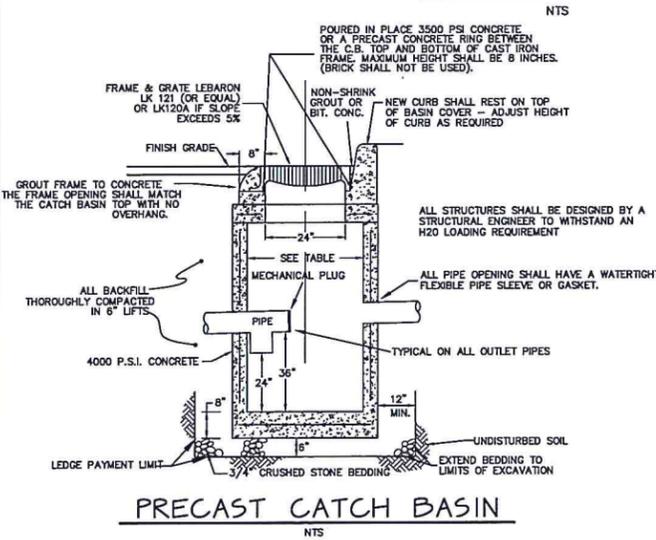
YARD DRAIN PROFILE



STORM OUTFALL DETAIL



PLAN

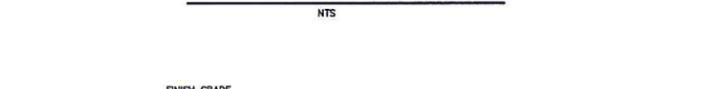


PRECAST CATCH BASIN

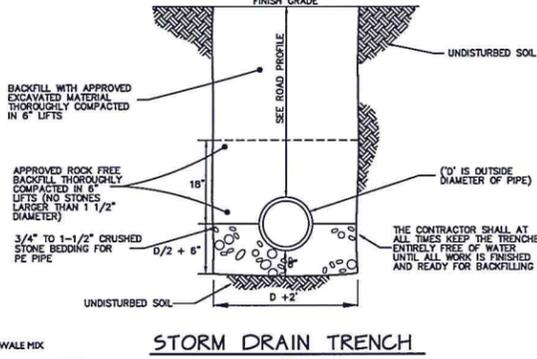
- CATCH BASINS SHALL BE SIZED SUCH THAT:
- AT ANY ELEVATION, A MINIMUM OF 60% OF THE CIRCUMFERENCE SHALL BE CONCRETE.
 - THE MINIMUM DISTANCE, AS MEASURED ALONG THE CIRCUMFERENCE, BETWEEN TWO OPENINGS SHALL BE 6".
 - THE BASINS SHALL ALSO MEET THE FOLLOWING MINIMUM REQUIREMENTS:

CATCH BASIN DIAMETER	LARGEST PIPE DIA. ALLOWED	SIDEWALL THICKNESS	CONCRETE COVER THICKNESS
36"	18"	4"	6"
48"	30"	5"	10"
60"	36"	6"	12"
72"	48"	7"	18"

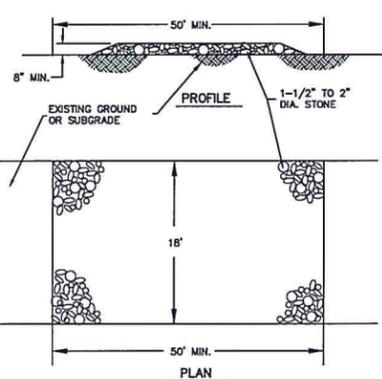
INLET PROTECTION DETAIL



INLET PROTECTION DETAIL



STORM DRAIN TRENCH

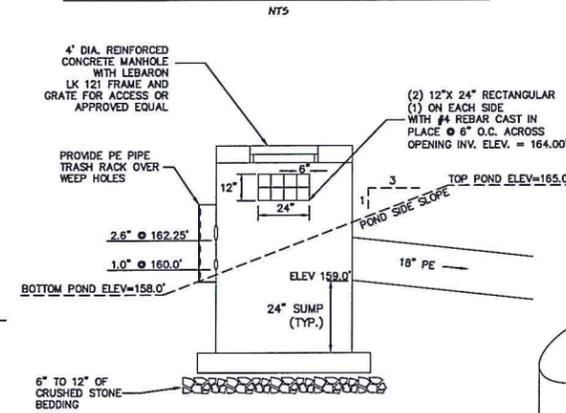


- NOTES:
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT TRACKED, SPILLED, OR WASHED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY BY CONTRACTOR.
 - THE USE OF CALCIUM CHLORIDE OR WATER MAY BE NECESSARY TO CONTROL DUST DURING THE SUMMER.
 - PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC RIGHT-OF-WAY.
 - THE CONTRACTOR SHALL REMOVE ALL SEDIMENT AND/OR MATERIAL TRACKED INTO THE TOWN'S RIGHT OF WAY BEFORE RAIN OR WITHIN 24 HOURS, WHICHEVER COMES FIRST.

STABILIZED CONSTRUCTION ENTRANCE

NTS

GRASSSED SWALE WITH UNDERDRAIN



OUTLET STRUCTURE

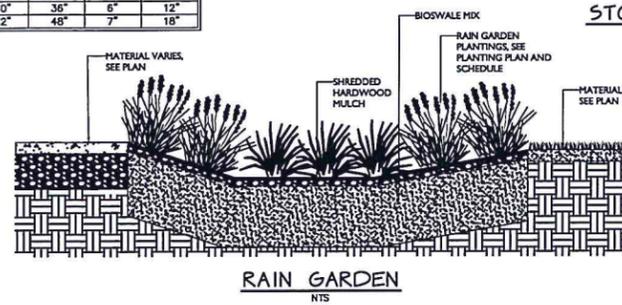
NTS

TRASH RACK DETAIL

NTS

DATE: 03/14	REVISION: Updated for Final Submittal	BY: BWC
SURVEY: ORCA	<input type="checkbox"/> RECORD DRAWING	DATE: 7-23-14
DESIGN: CITIERS/ORCA	<input type="checkbox"/> FINAL	DATE: 2011-52
DRAWN: BJB/BWC	<input type="checkbox"/> PRELIMINARY	DATE: 2011-52
CHECKED: PAO	<input type="checkbox"/> SKETCH/CONCEPT	DATE: 2011-52-09
SCALE: 1"=40'	PROJECT: STORMWATER & EROSION CONTROL DETAILS	

THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-800-225-4977 PRIOR TO ANY EXCAVATION.



RAIN GARDEN

NTS



O'LEARY-BURKE CIVIL ASSOCIATES, PLC
 1 CORPORATE DRIVE, SUITE 1
 ESSEX, VT 05732
 PHONE: 878-8880 FAX: 878-8888
 EMAIL: obo@olearyburke.com

IRELAND PROPERTY

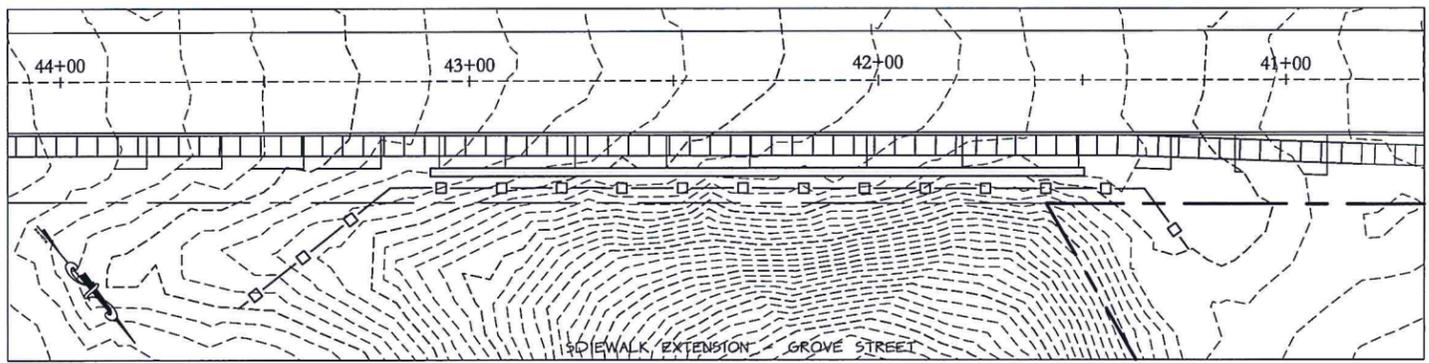
Storm Street Burlington, VT

STORMWATER & EROSION CONTROL DETAILS

PLAN SHEET # S17

Legend

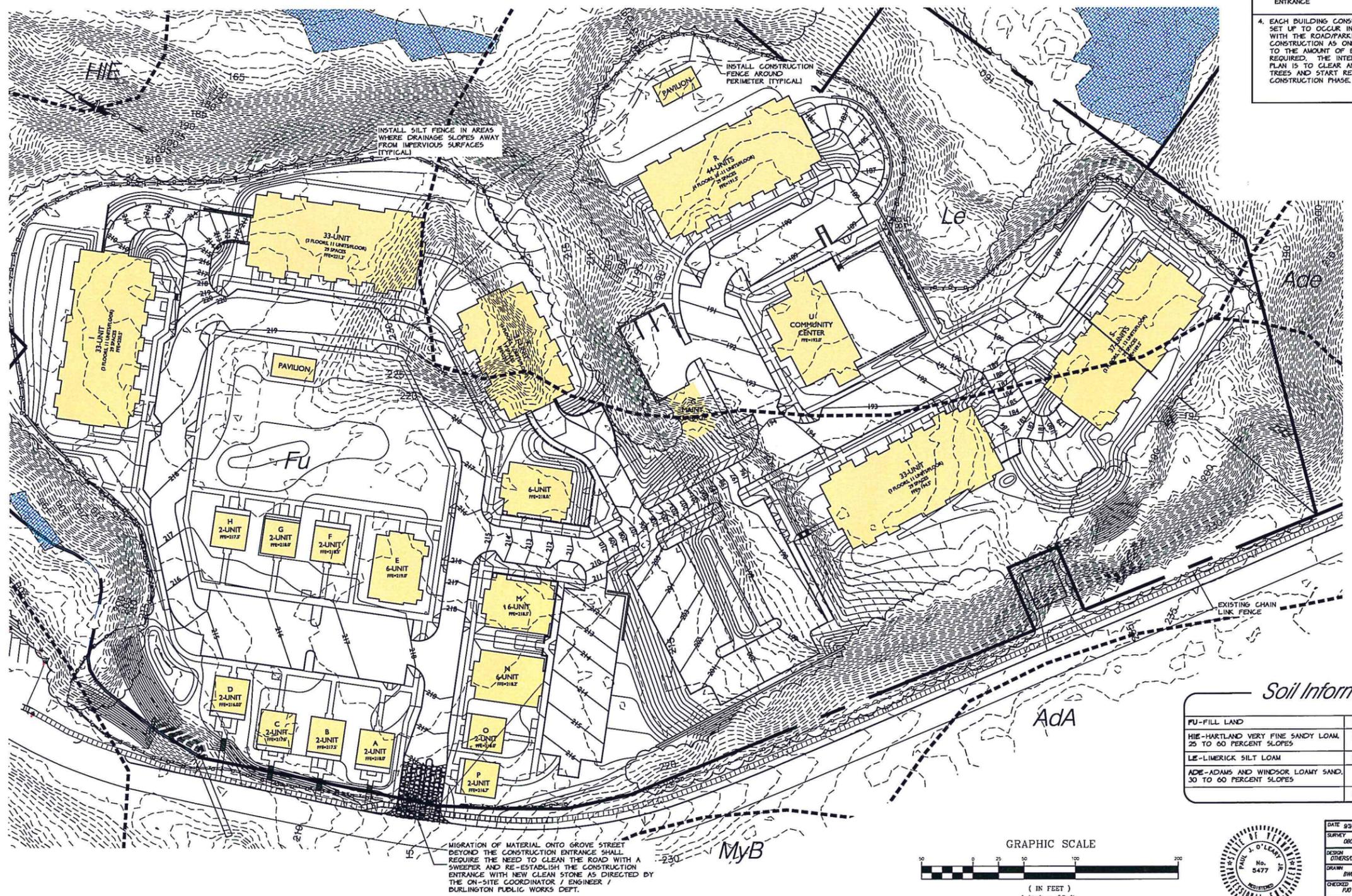
	PROJECT BOUNDARY
	500' CONTOUR LINE (U.S.G.S. DATUM)
	PROPOSED FINISH GRADE CONTOUR
	EDGE OF WOODED AREA
	PROPOSED SEWERLINE
	SOILS
	PROPOSED WATERLINE
	PROPOSED HYDRANT
	FRENCH DRAIN
	RETAINING WALL
	PROPOSED PAVEMENT
	PROPOSED BUILDING
	EXISTING CHAIN LINK FENCE
	CONSTRUCTION FENCE
	SILT FENCE



PRE-CONSTRUCTION SEQUENCING FOR EROSION PREVENTION + SEDIMENT CONTROL

PRE-CONSTRUCTION PHASE INSTALLATION OF THE EROSION CONTROL DEVICES BEFORE CONSTRUCTION COMMENCES

MAJOR CONSTRUCTION ITEM	EROSION CONTROL	MAINTENANCE
1. CONDUCT A PRE-CONSTRUCTION VISUAL SURVEY OF OVERFLOW DISCHARGE POINT AS SHOWN TO BE WITNESSED BY CONTRACTOR AND ENGINEER. IT IS THE RESPONSIBILITY OF THE CHOSEN CONTRACTOR TO NOTIFY THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.	INSPECT OVERFLOW DISCHARGE POINT DURING ANY STORM EVENT THAT DISCHARGES STORMWATER FROM THE SITE AND COMPARE TO THE PRE-CONSTRUCTION CONDITION. ANY DISCOLORATION OR APPARENT SEDIMENT LEAVING THE SITE SHALL BE REPORTED TO THE ON-SITE ENGINEER IMMEDIATELY AND MEASURES SHALL BE TAKEN TO REMEDY THE SITUATION BEFORE ANY CONSTRUCTION CAN CONTINUE.	ALL INSPECTIONS OF THE DISCHARGE POINT INCLUDING PHOTOS OF THE PRE-CONSTRUCTION CONDITIONS SHALL BE KEPT ON SITE AT ALL TIMES FOR COMPARISON PURPOSES BY THE STATE OF VERMONT AND ON-SITE ENGINEER UNTIL SITE IS FULLY STABILIZED.
2. MARK LIMITS OF AREA TO BE DISTURBED.	INSTALL CONSTRUCTION FENCING AT LOCATIONS SHOWN ON PLAN.	MAINTAIN UNTIL CONSTRUCTION WITHIN ANY GIVEN PHASE IS COMPLETED OR STABILIZED.
3. INSTALL SILT FENCING AND STABILIZED CONSTRUCTION ENTRANCE	INSTALL SILT FENCING AND STABILIZED CONSTRUCTION ENTRANCE AT LOCATIONS SHOWN ON PLAN.	MAINTAIN SILT FENCE AND REMOVE DEPOSITS OF SILT. REMOVE AND REPLACE STONE AT ENTRANCE AS ORDERED BY THE ON-SITE COORDINATOR.
4. EACH BUILDING CONSTRUCTION IS SET UP TO OCCUR IN CONJUNCTION WITH THE ROAD/PARKING LOT CONSTRUCTION AS ONE PHASE DUE TO THE AMOUNT OF EARTHWORK REQUIRED. THE INTENT OF THIS PLAN IS TO CLEAR ANY NECESSARY TREES AND START RE-GRADING, SEE CONSTRUCTION PHASE.	INSTALL LIMITS OF CONSTRUCTION AROUND THE SITE AND SILT FENCE ON THE DOWNHILL SIDE. ANY EXCAVATION STOCKPILES MADE AS THE RESULT OF FOUNDATION EXCAVATION ARE TO BE SURROUNDED WITH SILT FENCE AND TOPSOIL PILES ARE TO BE SEEDED AND MULCHED IF THEY ARE TO REMAIN FOR MORE THAN 14 DAYS.	THE SILT FENCE IS TO BE MAINTAINED UNTIL THE STOCKPILE HAS BEEN REMOVED. IN-USE AREAS OF THE STOCKPILE AREA TO BE RESEEDED AND MULCHED IF OPEN AND UNUSED FOR MORE THAN 14 DAYS.



GENERAL NOTES :

- THE PURPOSE OF THESE PLANS IS TO :
 - MINIMIZE THE AREA OF DISTURBED SOILS AND TO MINIMIZE THE DURATION THAT ANY AREAS ARE LEFT OPEN.
 - ISOLATE THE AREAS OF DISTURBANCE TO PREVENT AND CONTROL EROSION CAUSED BY RUN-OFF.
 - CONTROL THE AMOUNTS OF SEDIMENT THAT MAY RESULT FROM ANY SITE EROSION.
- A COPY OF THE CONSTRUCTION GENERAL PERMIT AND A SET OF THE PLANS WILL BE AVAILABLE ON-SITE.
- THE ON-SITE PLAN COORDINATOR IS AS SHOWN ON THIS PLAN.
- THE ON-SITE COORDINATOR SHALL INSPECT AND KEEP A WRITTEN RECORD OF THE EROSION AND SEDIMENT CONTROL STRUCTURES AND MEASURES AT A MINIMUM OF ONCE A WEEK AND ALSO WITHIN 24 HOURS OF ANY STORM EVENT THAT DISCHARGES RUN-OFF FROM THE SITE.
- THE ON-SITE COORDINATOR SHALL KEEP A WRITTEN RECORD OF EROSION CONTROL INSPECTIONS AND ANY MONITORING DATA FOR A MINIMUM OF THREE (3) YEARS FOLLOWING COMPLETION OF CONSTRUCTION.
- REFER TO PLAN SHEETS EC1 THROUGH EC3 FOR ALL EROSION CONTROL PLANS AND SPECIFICATIONS.

PLAN INDEX

SHT.	PLAN DESCRIPTION
E1	EPSC PRE-CONSTRUCTION PLAN
E2	EPSC CONSTRUCTION PLAN PHASE I
E3	EPSC CONSTRUCTION PLAN PHASE II
E4	EPSC POST-CONSTRUCTION PLAN
E5	EPCS CULVERT REMOVAL PLAN
E6	EPCS DETAILS + SPECIFICATIONS

INSPECTION SCHEDULE

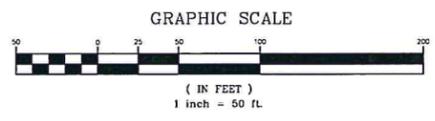
INSPECTION SCHEDULE	WEEKLY	AFTER EACH RAINFALL THAT GENERATED STORMWATER FROM SITE
INSPECT SILT FENCING	X	X
INSPECT CONSTRUCTION FENCE	X	X
INSPECT AREAS TEMPORARILY MULCHED	X	X
INSPECT TEMPORARY SOIL STOCKPILE	X	X
INSPECT STABILIZED CONSTRUCTION ENTRANCES	X	X
INSPECT AREAS THAT HAVE BEEN TOPSOILED + MULCHED	X	X
INSPECT STORMWATER PONDS AND SEDIMENT TRAPS	X	X

Soil Information

FU-FILL LAND	12.65 ACRES
H1E-HARTLAND VERY FINE SANDY LOAM, 25 TO 60 PERCENT SLOPES	2.20 ACRES
LE-LIMERICK SILT LOAM	5.90 ACRES
ADe-ADAMS AND WINDSOR LOAMY SAND, 30 TO 60 PERCENT SLOPES	.04 ACRES
20.79 ACRES TOTAL	

ON-SITE COORDINATOR:
PAT O'BRIEN
PHONE - (802)863-6222

NOTE: IF WINTER CONSTRUCTION WILL OCCUR BETWEEN OCTOBER 15 AND APRIL 15 REFER TO THE WINTER EROSION CONTROL GUIDELINES FOR ADDITIONAL EROSION AND SEDIMENT CONTROL REQUIREMENTS APPLYING TO ANY COMPONENT OF PROJECT AS OUTLINED ABOVE.



DATE: 02/14 REVISION: Updated for Final Submittal
 SURVEY: OBCA
 DESIGN: OTHERS/BORCA
 DRAWN: PBC
 CHECKED: PJD
 SCALE: 1"=50'

O'LEARY-BURKE CIVIL ASSOCIATES, PLC
 1 CORPORATE DRIVE, SUITE 1
 ESSEX, VT, 05732
 PHONE: 878-8888
 FAX: 878-8888
 E-MAIL: o'buri@o'buriyburke.com

IRELAND PROPERTY
 Groves Street Burlington, VT

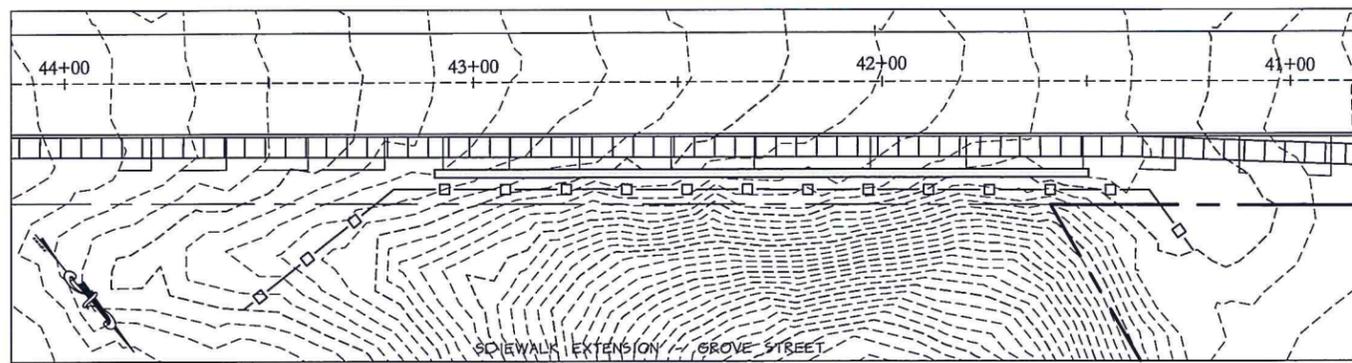
EROSION CONTROL PLAN PRE-CONSTRUCTION

DATE: 1-15-14
 FILE: 2011-02-BUFFER
 PLAN SHEET # **EC1**

MIGRATION OF MATERIAL ONTO GROVE STREET BEYOND THE CONSTRUCTION ENTRANCE SHALL REQUIRE THE NEED TO CLEAN THE ROAD WITH A SWEEPER AND RE-ESTABLISH THE CONSTRUCTION ENTRANCE WITH NEW CLEAN STONE AS DIRECTED BY THE ON-SITE COORDINATOR / ENGINEER / BURLINGTON PUBLIC WORKS DEPT.

Legend

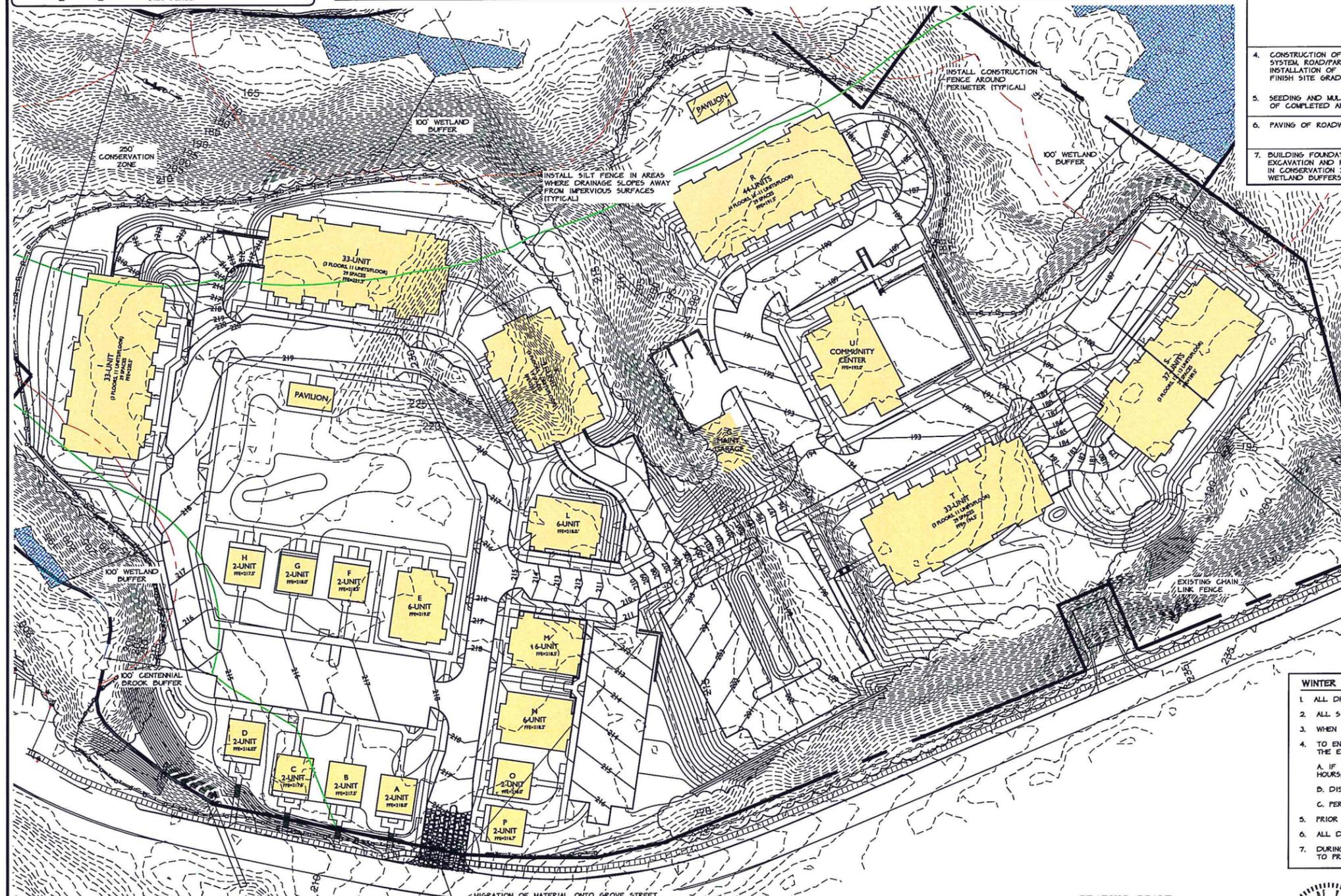
- PROJECT BOUNDARY
- CONTOUR LINE (U.S.G.S. DATUM)
- PROPOSED FINISH GRADE CONTOUR
- EDGE OF WOODED AREA
- PROPOSED SEWERLINE
- PROPOSED STORMLINE
- PROPOSED WATERLINE
- PROPOSED HYDRANT
- FRENCH DRAIN
- RETAINING WALL
- PROPOSED PAVEMENT
- PROPOSED BUILDING
- EXISTING CHAIN LINK FENCE
- CONSTRUCTION FENCE
- SILT FENCE



CONSTRUCTION SEQUENCING FOR EROSION PREVENTION + SEDIMENT CONTROL

THE ON-SITE COORDINATOR SHALL INSPECT THE SITE AND THE SEDIMENT CONTROL MEASURES A MINIMUM OF ONCE EVERY SEVEN DAYS, PRIOR TO PREDICTED STORM EVENTS AND WITHIN 24 HOURS FOLLOWING ANY PRECIPITATION WITH A VOLUME LARGE ENOUGH TO DISCHARGE RUN-OFF FROM THE SITE. THE WEEKLY REPORT AND EROSION CONTROL PLAN WILL BE KEPT ON-SITE.

PHASE I CONSTRUCTION OF ROADWAYS AND PARKING AREA, INSTALLATION OF UTILITIES, AND SITE GRADING		
MAJOR CONSTRUCTION ITEM	EROSION CONTROL	MAINTENANCE
1. MARK LIMITS OF AREA TO BE DISTURBED.	INSTALL CONSTRUCTION FENCING AT LOCATIONS SHOWN ON PLAN.	MAINTAIN UNTIL CONSTRUCTION WITHIN PHASE I IS COMPLETED.
2. INSTALL SILT FENCING AND STABILIZED CONSTRUCTION ENTRANCE	INSTALL SILT FENCING AND STABILIZED CONSTRUCTION ENTRANCE AT LOCATIONS SHOWN ON PLAN.	MAINTAIN SILT FENCE AND REMOVE DEPOSITS OF SILT. REMOVE AND REPLACE STONE AT ENTRANCE AS ORDERED BY THE ON-SITE COORDINATOR.
3. GRUBBING AND TOPSOIL STOCKPILING	ANY STUMPS ARE TO BE DISPOSED OF AT AN APPROVED DISPOSAL SITE. A SILT FENCE IS TO BE INSTALLED AROUND THE BASE OF THE STOCKPILE. THE STOCKPILE IS TO BE SEEDDED AND MULCHED WITHIN 48 HOURS OF PLACEMENT.	THE SILT FENCE IS TO BE MAINTAINED UNTIL THE STOCKPILE HAS BEEN REMOVED. IN-USE AREAS OF THE STOCKPILE ARE TO BE RESEEDDED AND REMULCHED IF OPEN AND UNUSED FOR MORE THAN A WEEK.
4. CONSTRUCTION OF STORM SYSTEM, ROAD/PARKING BASE, INSTALLATION OF UTILITIES AND FINISH SITE GRADING.	DISTURBED AREAS ARE TO BE SEEDDED AND MULCHED WITHIN 7 DAYS OF DISTURBANCE. AREAS THAT ARE FINISH GRADED ARE TO BE SEEDDED AND MULCHED WITHIN 48 HOURS.	ROADWAY SIDESLOPES ARE TO BE INSPECTED WEEKLY OR IMMEDIATELY FOLLOWING A RUN-OFF PRODUCING STORM. REMOVE SEDIMENT AND REPLACE STONE AS NECESSARY.
5. SEEDING AND MULCHING OF COMPLETED AREAS		
6. PAVING OF ROADWAY AREA	FINISH GRADING, SEED + MULCHING OF ANY UNFINISHED AREAS	
7. BUILDING FOUNDATION EXCAVATION AND RE-GRADING IN CONSERVATION ZONES AND WETLAND BUFFERS	STOCKPILES SHALL BE LIMITED TO AREAS NOT INSIDE THE CONSERVATION ZONES OR WETLAND BUFFERS	DISTURBED AREAS ARE TO BE MAINTAINED UNTIL GRASS IS ESTABLISHED.



INSPECTION SCHEDULE	WEEKLY	AFTER EACH RAINFALL THAT GENERATES STORMWATER FROM SITE
INSPECT SILT FENCING	X	X
INSPECT CONSTRUCTION FENCE	X	X
INSPECT AREAS TEMPORARILY MULCHED	X	X
INSPECT TEMPORARY SOIL STOCKPILE	X	X
INSPECT STABILIZED CONSTRUCTION ENTRANCES	X	X
INSPECT AREAS THAT HAVE BEEN TOPSOILED + MULCHED	X	X
INSPECT STORMWATER PONDS AND SEDIMENT TRAPS	X	X

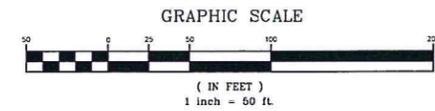
ON-SITE COORDINATOR:
PAT O'BRIEN
PHONE - (802)863-6222

NOTE: IF WINTER CONSTRUCTION WILL OCCUR BETWEEN OCTOBER 15 AND APRIL 15 REFER TO THE WINTER EROSION CONTROL GUIDELINES FOR ADDITIONAL EROSION AND SEDIMENT CONTROL REQUIREMENTS APPLYING TO ANY COMPONENT OF PROJECT AS OUTLINED ABOVE.

WINTER GUIDELINES FOR EROSION PREVENTION + SEDIMENT CONTROL

1. ALL DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
2. ALL SILT FENCE OR OTHER PRACTICES REQUIRING EARTH DISTURBANCE SHALL BE IN PLACE PRIOR TO GROUND FREEZING.
3. WHEN MULCH IS REQUIRED FOR STABILIZATION DOUBLE THE STANDARD RATE SHALL BE APPLIED.
4. TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
 - A. IF NO PRECIPITATION WITHIN 24 HOURS IS FORECAST AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
 - B. DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS HOUSE FOUNDATIONS OR OPEN UTILITY TRENCHES.
 - C. PERFORMING DRILLING AND BLASTING WHERE SITE IS IN A DEPRESSION AND STORMWATER IS TRAPPED.
5. PRIOR TO STABILIZATION SNOW AND ICE MUST BE REMOVED TO DEPTH OF NO LESS THAN 1 IN.
6. ALL DISTURBED AREAS MUST BE SEEDDED AND MULCHED WITHIN 48 HOURS OF BEING BROUGHT TO FINISH GRADE.
7. DURING WINTER EROSION, MULCH SHALL BE APPLIED AT DOUBLE THE RATE OR NETTING OR OTHER APPROACH SHALL BE USED TO PREVENT REMOVAL BY WIND.

MIGRATION OF MATERIAL ONTO GROVE STREET BEYOND THE CONSTRUCTION ENTRANCE SHALL REQUIRE THE NEED TO CLEAN THE ROAD WITH A SWEEPER AND RE-ESTABLISH THE CONSTRUCTION ENTRANCE WITH NEW CLEAN STONE AS DIRECTED BY THE ON-SITE COORDINATOR / ENGINEER / DUBLINGTON PUBLIC WORKS DEPT.



DATE: 9/24
 SURVEY: OBCA
 DESIGN: OTHERS/DCA
 DRAWN: BWC
 CHECKED: PJO
 SCALE: 1"=50'

REVISION (Updated for Final Submit)

<input type="checkbox"/> RECORD DRAWING	<input type="checkbox"/> PRELIMINARY
<input type="checkbox"/> FINAL	<input type="checkbox"/> SKETCH/CONCEPT

O'LEARY-BURKE CIVIL ASSOCIATES, PLC
 1 CORPORATE DRIVE, SUITE 1
 ESSEX, VT. 05730
 PHONE: 878-8880
 FAX: 878-9089
 EMAIL: poburke@olearyburke.com

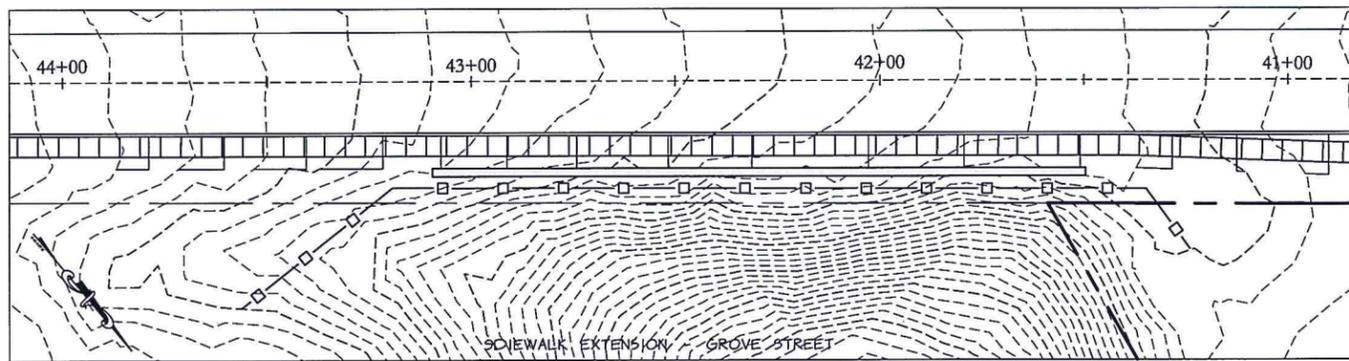
IRELAND PROPERTY
 Grove Street, Burlington, VT

EROSION CONTROL PLAN CONSTRUCTION PHASE I

DATE: 1-15-14
 JOB: 2011-52
 FILE: 2011-52-RUFFER
 PLAN SHEET # **EC2**

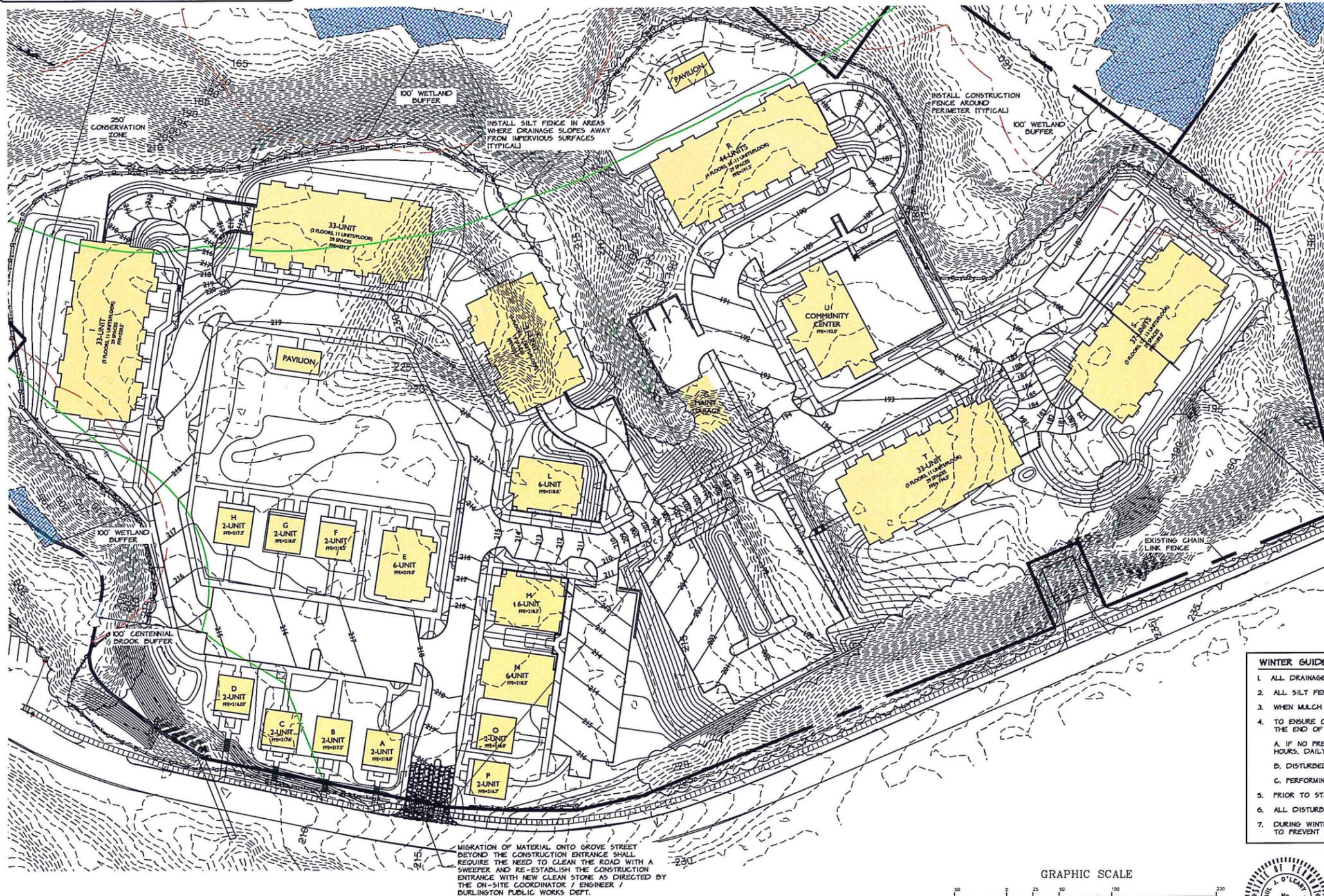
Legend

- PROJECT BOUNDARY
- - - - - 500' CONTOUR LINE (U.S.G.S. DATUM)
- - - - - PROPOSED FINISH GRADE CONTOUR
- ~~~~~ EDGE OF WOODED AREA
- (S)--- PROPOSED SEWERLINE
- (S)--- PROPOSED STORMLINE
- (W)--- PROPOSED WATERLINE
- (H)--- PROPOSED HYDRANT
- (F)--- FRENCH DRAIN
- (R)--- RETAINING WALL
- (P)--- PROPOSED PAVEMENT
- (B)--- PROPOSED BUILDING
- (X)--- EXISTING CHAIN LINK FENCE
- (X)--- CONSTRUCTION FENCE
- (S)--- SILT FENCE



CONSTRUCTION SEQUENCING FOR EROSION PREVENTION + SEDIMENT CONTROL

PHASE II CONSTRUCTION BUILDING, UTILITY CONNECTIONS AND FINISH SITE GRADING		
MAJOR CONSTRUCTION ITEM	EROSION CONTROL	MAINTENANCE
1. MARK LIMITS OF AREA TO BE DISTURBED.	INSTALL CONSTRUCTION FENCING AROUND AREAS TO BE EXCAVATED.	MAINTAIN UNTIL CONSTRUCTION IS COMPLETED. (FENCE LOCATIONS WILL BE ADJUSTED AS BUILDINGS ARE FINISHED).
2. INSTALL SILT FENCING	INSTALL SILT FENCING AROUND AREAS TO BE EXCAVATED.	MAINTAIN SILT FENCE AND REMOVE DEPOSITS OF SILT.
3. EXCAVATION FOR BUILDING, INSTALLATION OF UTILITIES AND FINISH GRADING.	DISTURBED AREAS ARE TO BE SEEDED AND MULCHED WITHIN 7 DAYS AREAS THAT ARE FINISH GRADED ARE TO BE SEEDED AND MULCHED WITHIN 48 HOURS.	DISTURBED AREAS ARE TO BE MAINTAINED UNTIL GRASS IS ESTABLISHED. (FENCE LOCATIONS TO BE MINIMIZED AS AREAS ARE COMPLETED AND GRASS IS ESTABLISHED)
4. BUILDING FOUNDATION EXCAVATION AND RE-GRADING IN CONSERVATION ZONES AND WETLAND BUFFERS	STOCKPILES SHALL BE LIMITED TO AREAS NOT INSIDE THE CONSERVATION ZONES OR WETLAND BUFFERS.	DISTURBED AREAS ARE TO BE MAINTAINED UNTIL GRASS IS ESTABLISHED.



INSPECTION SCHEDULE	WEEKLY	AFTER EACH RAINFALL THAT GENERATES STORMWATER FROM SITE
INSPECT SILT FENCING	X	X
INSPECT CONSTRUCTION FENCE	X	X
INSPECT AREAS TEMPORARILY MULCHED	X	X
INSPECT TEMPORARY SOIL STOCKPILE	X	X
INSPECT STABILIZED CONSTRUCTION ENTRANCES	X	X
INSPECT AREAS THAT HAVE BEEN TOPSOILED + MULCHED	X	X
INSPECT STORMWATER PONDS AND SEDIMENT TRAPS	X	X

ON-SITE COORDINATOR:
PAT O'BRIEN
 PHONE - (802)863-6222

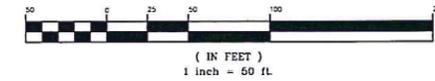
NOTE: IF WINTER CONSTRUCTION WILL OCCUR BETWEEN OCTOBER 15 AND APRIL 15 REFER TO THE WINTER EROSION CONTROL GUIDELINES FOR ADDITIONAL EROSION AND SEDIMENT CONTROL REQUIREMENTS APPLYING TO ANY COMPONENT OF PROJECT AS OUTLINED ABOVE.

WINTER GUIDELINES FOR EROSION PREVENTION + SEDIMENT CONTROL

1. ALL DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
2. ALL SILT FENCE OR OTHER PRACTICES REQUIRING EARTH DISTURBANCE SHALL BE IN PLACE PRIOR TO GROUND FREEZING.
3. WHEN MULCH IS REQUIRED FOR STABILIZATION DOUBLE THE STANDARD RATE SHALL BE APPLIED.
4. TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
 - A. IF NO PRECIPITATION WITHIN 24 HOURS IS FORECAST AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
 - B. DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS HOUSE FOUNDATIONS OR OPEN UTILITY TRENCHES.
 - C. PERFORMING DRILLING AND BLASTING WHERE SITE IS IN A DEPRESSION AND STORMWATER IS TRAPPED.
5. PRIOR TO STABILIZATION SNOW AND ICE MUST BE REMOVED TO DEPTH OF NO LESS THAN 1 IN.
6. ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED WITHIN 48 HOURS OF BEING BROUGHT TO FINISH GRADE.
7. DURING WINTER EROSION MULCH SHALL BE APPLIED AT DOUBLE THE RATE OR NETTING OR OTHER APPROACH SHALL BE USED TO PREVENT REMOVAL BY WIND.

MIGRATION OF MATERIAL ONTO GROVE STREET BEYOND THE CONSTRUCTION ENTRANCE SHALL REQUIRE THE NEED TO CLEAN THE ROAD WITH A SWEEPER AND RE-ESTABLISH THE CONSTRUCTION ENTRANCE WITH NEW CLEAN STONE AS DIRECTED BY THE ON-SITE COORDINATOR / ENGINEER / DURLINGTON PUBLIC WORKS DEPT.

GRAPHIC SCALE



DATE: 9/24
 SURVEY: DECA
 DESIGN: OTHERS/DECA
 DRAWN: BWC
 CHECKED: PJD
 SCALE: 1"=50'

REVISION: Updated for Final Submit

RECORD DRAWING
 FINAL
 PRELIMINARY
 SKETCH/CONCEPT

O'LEARY-BURKE CIVIL ASSOCIATES, PLC
 1 CORPORATE DRIVE, SUITE 1
 ESSEX, VT 05730
 PHONE: 878-8880
 FAX: 878-8089
 E-MAIL: polary@olearyburke.com

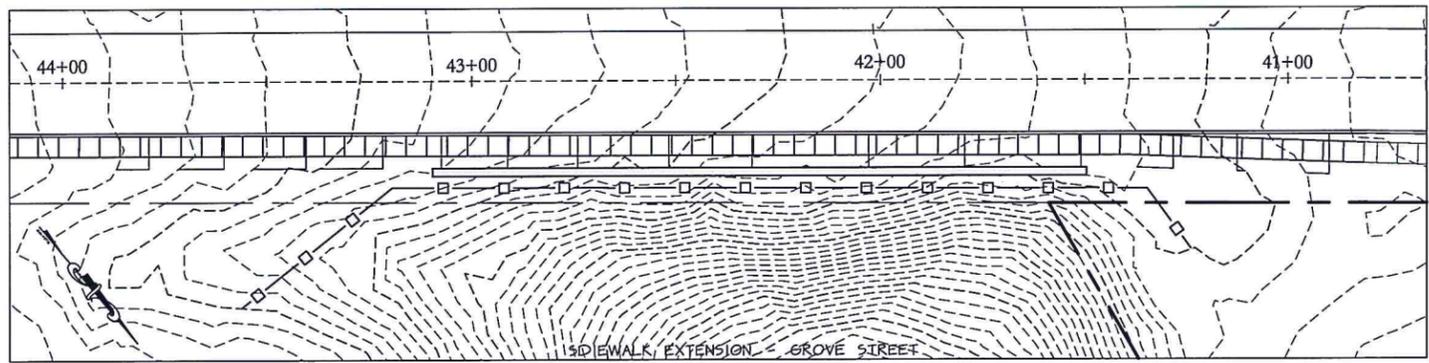
IRELAND PROPERTY
 8 Grove Street, Burlington, VT

EROSION CONTROL PLAN CONSTRUCTION PHASE II

DATE: 1-15-14
 FILE: 2011-S2-BUFFER
 PLAN SHEET # **EC3**

Legend

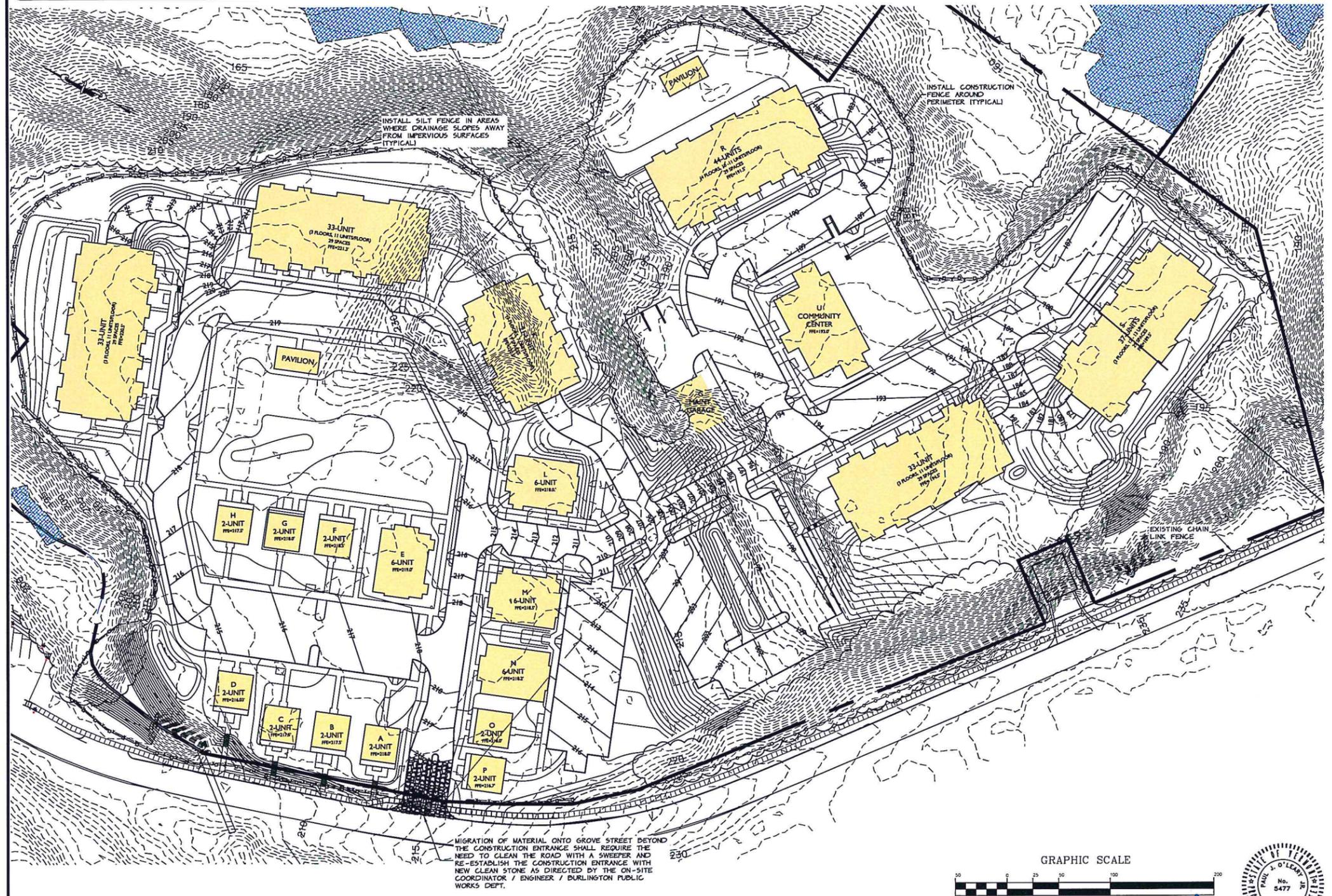
	PROJECT BOUNDARY
	CONTOUR LINE (U.S.G.S. DATUM)
	PROPOSED FINISH GRADE CONTOUR
	EDGE OF WOODED AREA
	PROPOSED SEWERLINE
	PROPOSED STORMLINE
	PROPOSED WATERLINE
	PROPOSED HYDRANT
	FRENCH DRAIN
	RETAINING WALL
	PROPOSED PAVEMENT
	PROPOSED BUILDING
	EXISTING CHAIN LINK FENCE
	CONSTRUCTION FENCE
	SILT FENCE



POST-CONSTRUCTION SEQUENCING FOR EROSION PREVENTION + SEDIMENT CONTROL

POST-CONSTRUCTION PHASE FINAL INSPECTION OF THE EROSION CONTROL DEVICES TO BE REMOVED AFTER AREAS ARE STABILIZED

MAJOR CONSTRUCTION ITEM	EROSION CONTROL	MAINTENANCE
1. CHECK PERIMETER WHERE DELINEATION CONSTRUCTION LIMITS WERE PLACED.	IF PERIMETER IS STABILIZED AND GRASS IS ESTABLISHED, REMOVE FENCES	
2. DURING CONSTRUCTION INFILTRATION BASINS AND SWALES WERE CONSTRUCTED FIRST AND SHOULD BE COMPLETELY STABILIZED BY NOW.	CHECK STORM SYSTEMS AND GRASSED SWALES BY ROADS TO MAKE SURE EVERYTHING IS STABILIZED. CHECK OVERALL SITE FOR ANY PROBLEM AREAS ENCOUNTERED DURING CONSTRUCTION AND OVERALL SITE.	SEED AND MULCH ANY DISTURBED AREAS.
3. CONDUCT A POST CONSTRUCTION INSPECTION OF THE DISCHARGE LOCATION LEADING TO THE WATERS OF THE STATE OF VERMONT.	TAKE PHOTOS AND NOTE FINAL INSPECTION IN EROSION CONTROL CONSTRUCTION BOOK.	IF EVERYTHING IS STABLE, ALL DEMARCATION AND SILT FENCES SHALL BE REMOVED. THE CONSTRUCTION ENTRANCES SHALL BE TAKEN OUT IN PREPARATION FOR PAVING.



STABILIZATION PLAN

THE PURPOSE OF THE EROSION AND SEDIMENT STABILIZATION PLAN IS TO COMPLY WITH STATE + FEDERAL REGULATIONS DEALING WITH THE CONTROL OF NONPOINT SOURCE (NPS) POLLUTION. THE PLAN CONTAINS A SERIES OF BEST MANAGEMENT PRACTICES (BMPs) DESIGNED TO MINIMIZE POLLUTION RESULTING OF STORMWATER RUNOFF AND OFF-SITE SEDIMENT DEPOSITION DURING LAND DISTURBANCE ACTIVITIES.

TO MINIMIZE THE POTENTIAL FOR EROSION CONSTRUCTION HAS BEEN BROKEN DOWN INTO FOUR PHASES. THE PROPOSED PLAN SEEKS TO MINIMIZE THE AREA DISTURBED AT ANY ONE TIME AND LIMIT THE AMOUNT OF TIME THE DISTURBED PORTIONS REMAIN EXPOSED BY REQUIRING FREQUENT (WEEKLY) TEMPORARY SEEDING AND/OR MULCHING AND BY REQUIRING THAT SURFACES BROUGHT TO FINISH GRADE BE TOPSOILED AND SEEDING WITHIN 48 HOURS.

AN URBAN TYPE GRASS MIXTURE SHALL BE USED FOR ALL PERMANENT SEEDING + MULCHING CONSISTING OF 38% KENTUCKY BLUEGRASS, 38% CREEPING RED FESCUE, AND 24% ANNUAL RYEGRASS. FOR WINTER CONSTRUCTION THE GRASS MIXTURE SHALL BE PLACED AT A RATE OF 240# PER ACRE.

FERTILIZER SHALL BE PLACED AT A RATE OF 1 TO 2 TONS PER ACRE WHERE SPECIFIED, AN EROSION CONTROL BLANKET SHALL BE USED. THE CONTRACTOR SHALL FOLLOW THE MANUFACTURERS RECOMMENDATION FOR PROPER OVERLAP AND FASTENER PLACEMENT. IN ADDITION THE CONTRACTOR SHALL REPLACE ANY MULCH LOST TO WINDTHROW ON A WEEKLY BASIS.

ALL NON-IMPERVIOUS SURFACES SHALL BE TOPSOILED, SEEDING AND MULCHED WITHIN 48 HOURS OF ESTABLISHING FINISH GRADE. THE CONTRACTOR SHALL INSPECT ALL SILT FENCING, STONE CHECK DAMS, STABILIZED CONSTRUCTION ENTRANCE AND STORM POND DETENTION AREAS ON A DAILY BASIS AND IMMEDIATELY FOLLOWING ANY RAINSTORM EVENT THAT GENERATES STORMWATER LEAVING THE SITE.

CONSTRUCTION ON THE NEXT SUBSEQUENT PHASE SHALL NOT OCCUR UNTIL THE PREVIOUS PHASE HAS BEEN COMPLETED WITH ALL STORMWATER AND EROSION AND SEDIMENT CONTROL DEVICES IN PLACE HAVING BEEN PERMANENTLY SEEDING AND MULCHED.

GENERAL NOTES :

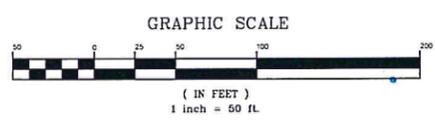
- THE PURPOSE OF THESE PLANS IS TO :
 - MINIMIZE THE AREA OF DISTURBED SOILS AND TO MINIMIZE THE DURATION THAT ANY AREAS ARE LEFT OPEN.
 - ISOLATE THE AREAS OF DISTURBANCE TO PREVENT AND CONTROL EROSION CAUSED BY RUN-OFF.
 - CONTROL THE AMOUNTS OF SEDIMENT THAT MAY RESULT FROM ANY SITE EROSION.
- A COPY OF THE CONSTRUCTION GENERAL PERMIT AND A SET OF THE PLANS WILL BE AVAILABLE ON-SITE.
- THE ON-SITE PLAN COORDINATOR IS AS SHOWN ON THIS PLAN.
- THE ON-SITE COORDINATOR SHALL INSPECT AND KEEP A WRITTEN RECORD OF THE EROSION AND SEDIMENT CONTROL STRUCTURES AND MEASURES AT A MINIMUM OF ONCE A WEEK AND ALSO WITHIN 24 HOURS OF ANY STORM EVENT THAT DISCHARGES RUN-OFF FROM THE SITE.
- THE ON-SITE COORDINATOR SHALL KEEP A WRITTEN RECORD OF EROSION CONTROL INSPECTIONS AND ANY MONITORING DATA FOR A MINIMUM OF THREE (3) YEARS FOLLOWING COMPLETION OF CONSTRUCTION.
- REFER TO PLAN SHEETS EG1 THROUGH EG3 FOR ALL EROSION CONTROL PLANS AND SPECIFICATIONS.

INSPECTION SCHEDULE

	WEEKLY	AFTER EACH RAINFALL THAT GENERATES STORMWATER FROM SITE
INSPECT SILT FENCING	X	X
INSPECT CONSTRUCTION FENCE	X	X
INSPECT AREAS TEMPORARILY MULCHED	X	X
INSPECT TEMPORARY SOIL STOCKPILE	X	X
INSPECT STABILIZED CONSTRUCTION ENTRANCES	X	X
INSPECT AREAS THAT HAVE BEEN TOPSOILED + MULCHED	X	X
INSPECT STORMWATER PONDS AND SEDIMENT TRAPS	X	X

ON-SITE COORDINATOR:
 PAT O'BRIEN
 PHONE - (802)863-6222

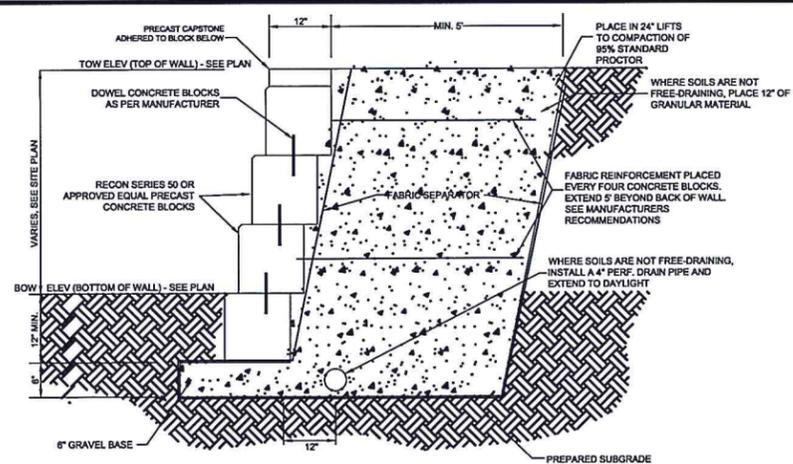
NOTE: IF WINTER CONSTRUCTION WILL OCCUR BETWEEN OCTOBER 15 AND APRIL 15 REFER TO THE WINTER EROSION CONTROL GUIDELINES FOR ADDITIONAL EROSION AND SEDIMENT CONTROL REQUIREMENTS APPLYING TO ANY COMPONENT OF PROJECT AS OUTLINED ABOVE.



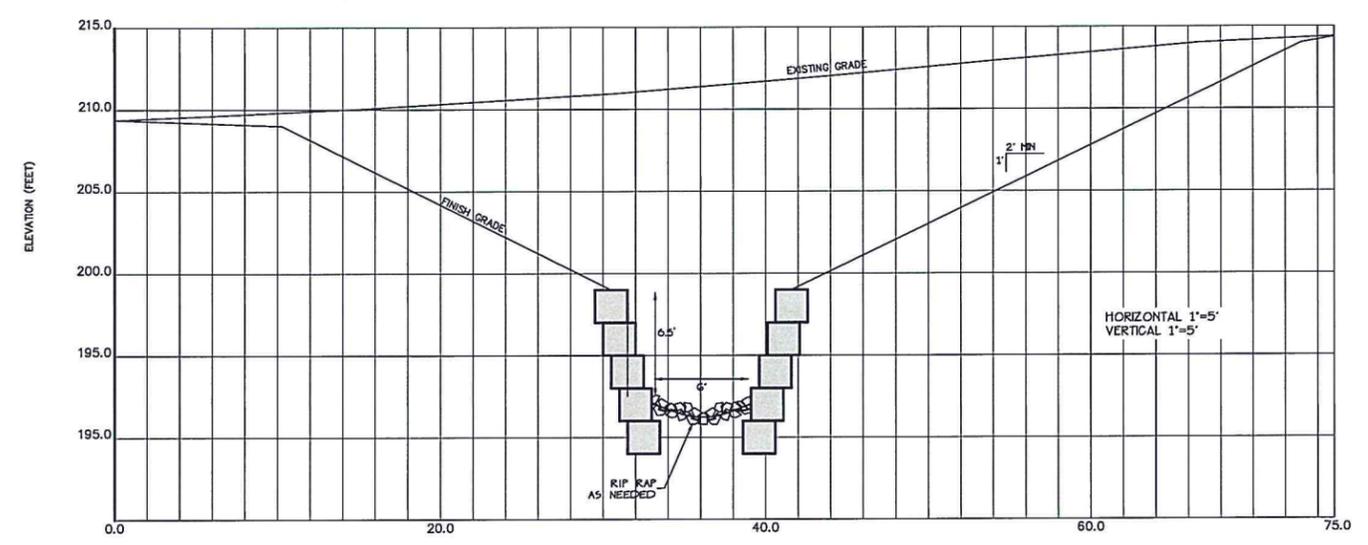
DATE 9/2/14	REVISION Updated for Final Submittal	BY BMD
SURVEY OBCA	<input type="checkbox"/> RECORD DRAWING <input checked="" type="checkbox"/> PRELIMINARY	DATE 1-15-14
DESIGN OTHERS/OBCA	<input type="checkbox"/> FINAL <input type="checkbox"/> SKETCH/CONCEPT	JOB# 2011-52
DRAWN BWC	O'LEARY-BURKE CIVIL ASSOCIATES, PLC	TITLE 2011-52-BUFFER
CHECKED FLD	1 CORPORATE DRIVE, SUITE 1 ESSEX, VT PHONE: 878-8860 FAX: 878-8880 E-MAIL: o'brien@oburke.com	PLAN SHEET #
SCALE 1"=50'	IRELAND PROPERTY Grove Street, Burlington, VT	EROSION CONTROL PLAN POST-CONSTRUCTION
		EC4

Legend

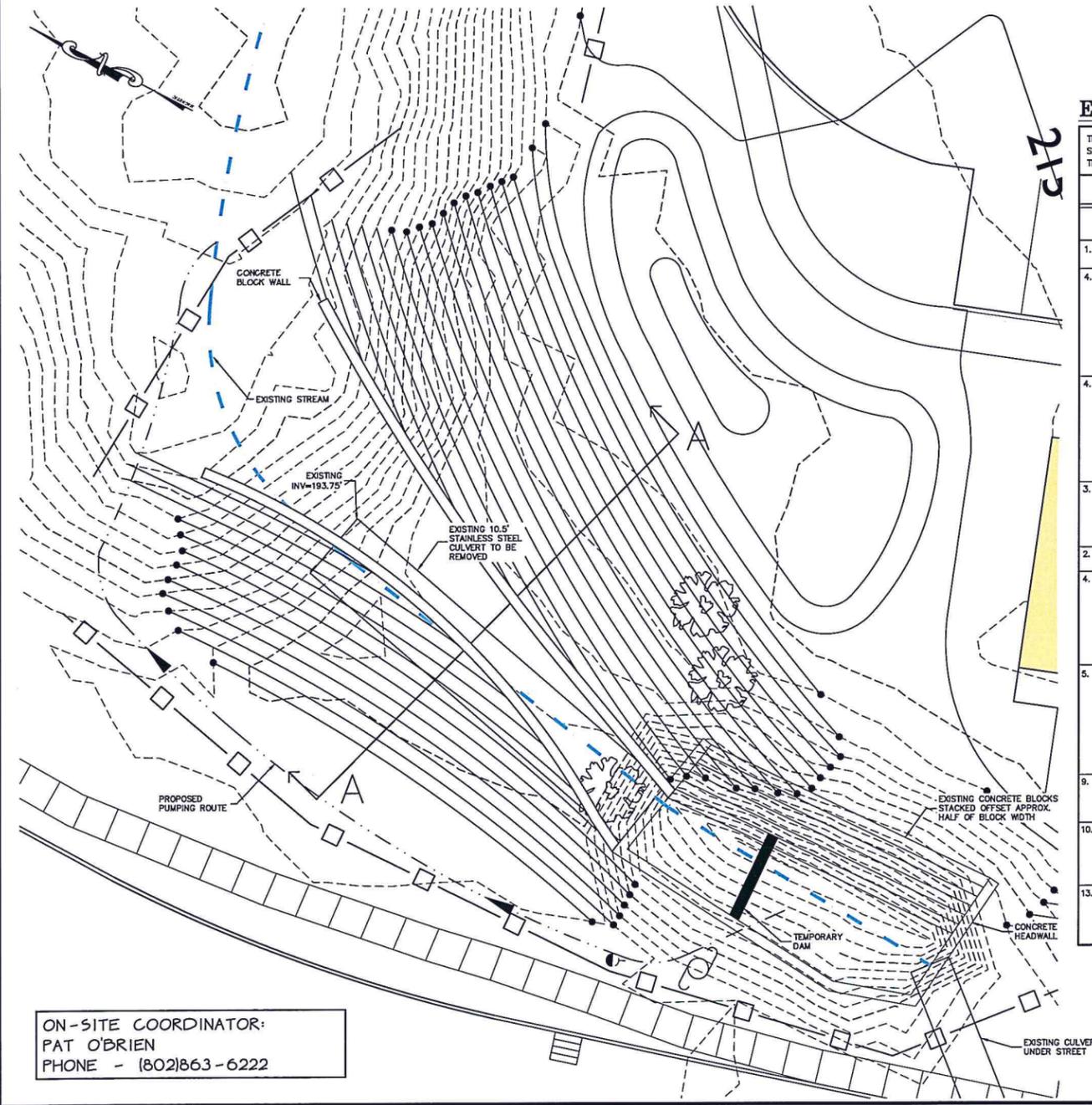
---	PROJECT BOUNDARY
---500---	CONTOUR LINE (U.S.G.S. DATUM)
---	PROPOSED FINISH GRADE CONTOUR
---	EDGE OF WOODED AREA
---	PROPOSED SEWERLINE
---	PROPOSED STORMLINE
---	PROPOSED WATERLINE
---	PROPOSED HYDRANT
---	FRENCH DRAIN
---	RETAINING WALL
---	PROPOSED PAVEMENT
---	PROPOSED BUILDING
---	PROPOSED DUMPSTER PAD LOCATION
---	SOIL TYPE + BOUNDARY
---	SILT FENCE WITH SKI TAPE



RETAINING WALL DETAIL
NTS



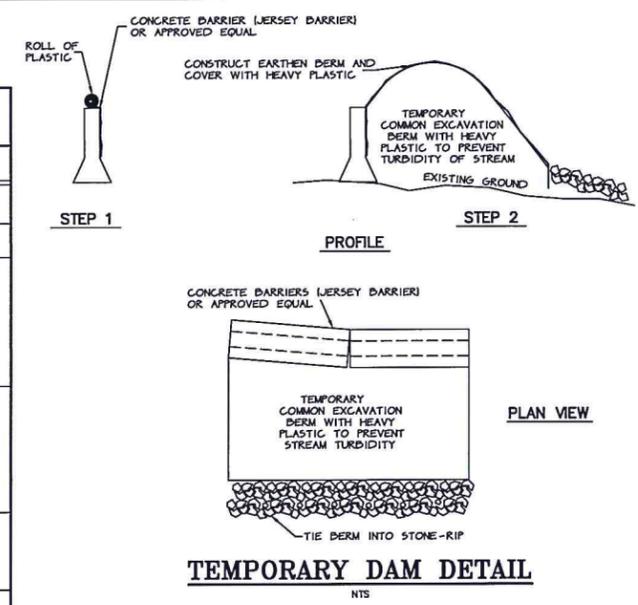
CONCRETE BLOCK WALL SECTION A-A



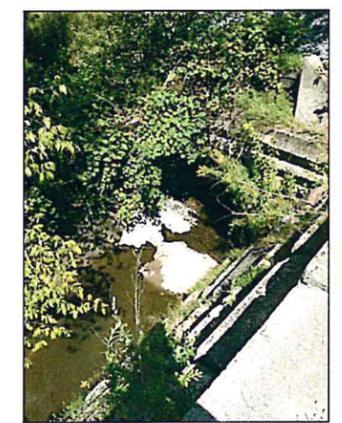
EROSION PREVENTION & SEDIMENT CONTROL

THE ON-SITE COORDINATOR SHALL INSPECT THE SITE AND THE SEDIMENT CONTROL MEASURES A MINIMUM OF ONCE EVERY DAY, PRIOR TO PREDICTED STORM EVENTS AND WITHIN 24 HOURS FOLLOWING ANY PRECIPITATION WITH A VOLUME LARGE ENOUGH TO DISCHARGE RUN-OFF FROM THE SITE. THE WEEKLY REPORT WILL BE KEPT ON-SITE.

CONSTRUCTION SEQUENCE		
MAJOR CONSTRUCTION ITEM	EROSION CONTROL	MAINTENANCE
1. MARK LIMITS OF AREA TO BE DISTURBED.	INSTALL PROJECT DEMARCATION FENCE AS SHOWN ON THE PLANS.	MAINTAIN UNTIL CONSTRUCTION IS COMPLETED.
4. BYPASS PUMP	A PUMP APPROVED BY THE ENGINEER WILL BE SETUP TO PUMP THE STREAM FLOW AROUND THE EXISTING CULVERT AND AREA OF EXCAVATION TO AN ESTABLISHED DOWNSTREAM LOCATIONS A BACKUP PUMP MUST BE LOCATED ONSITE FOR UNEXPECTED EVENTS IN STREAM FLOW OR MECHANICAL FAILURE EACH PUMP WILL HAVE TWICE THE CAPACITY OF THE AVERAGE STREAM FLOW	CAREFUL ATTENTION SHALL BE UTILIZED TO ENSURE THAT THE DAM SYSTEM IS FUNCTIONING PROPERLY AND NO EROSION IS TAKING PLACE. ANY SIGN OF INSTABILITY OR TURBIDITY SHALL BE ADDRESSED IMMEDIATELY.
4. INSTALL BYPASS DAM	CHECK THE 7-DAY WEATHER FORECAST TO THE SATISFACTION OF THE PROJECT MANAGER. A CONCRETE JERSEY BARRIER OR APPROVED DIVERSION DEVICE SHALL BE PLACED IN THE STREAM TO DIRECT FLOW TO THE TEMPORARY BY-PASS SWALE. CONSTRUCT AN EARTHEN BERM BEHIND THE CONCRETE BARRICADE AS SHOWN ON THE DIVERSION DETAIL.	STONE FILL SHALL BE READILY AVAILABLE AT ALL TIMES.
3. INSTALL SILT FENCE	INSTALL SILT FENCE AS SHOWN ON PLAN	MAINTAIN SILT FENCE AND REMOVE DEPOSITS OF SILT. REMOVE AND REPLACE DAMAGED SECTIONS AS ORDERED BY THE ON-SITE COORDINATOR. SILT FENCES IN THE DISTURBED AREAS ARE TO BE MAINTAINED UNTIL GRASS IS ESTABLISHED.
2. CLEARING	CLEAR THE TREES AND BRUSH IN THE VICINITY OF THE EXCAVATION AREA.	THE TREES AND BRUSH TO BE CUT SHALL BE HAULED OFF SITE.
4. GRUBBING AND TOPSOIL STOCKPILING	ANY STUMPS ARE TO BE DISPOSED OF AT AN APPROVED DISPOSAL SITE. A SILT FENCE IS TO BE INSTALLED AROUND THE BASE OF THE STOCKPILES OR AS ORDERED BY THE ON-SITE COORDINATOR. STOCKPILES AND DISTURBED AREAS ARE TO BE MULCHED WITHIN 7 DAYS OR AS APPROVED BY THE ON-SITE COORDINATOR OR PROJECT MANAGER.	SILT FENCES ARE TO BE MAINTAINED UNTIL THE STOCKPILES HAVE BEEN REMOVED. IN-USE AREAS OF THE STOCKPILES ARE TO BE REMULCHED IF UNUSED FOR MORE THAN A WEEK.
5. EXCAVATE THE AREAS AS SHOWN ON THE PLANS IN ORDER TO REMOVE THE EXISTING CULVERT	EXCAVATE THE AREA TO THE GRADES SHOWN ON THE PLANS FOR THE INSTALLATION IN ORDER TO REMOVE THE EXISTING CULVERT. EXCAVATED MATERIAL SHALL BE PLACED IN A DRY AREA AND SILT FENCE SHALL BE INSTALLED AT THE BASE ON THE DOWN-SLOPE SIDE OR AS ORDERED BY THE ON-SITE COORDINATOR.	CAREFUL ATTENTION SHALL BE UTILIZED TO ENSURE THE GRADING OF THE EXCAVATED MATERIAL IS PLACED IN A SUITABLE AREA IN ORDER TO ENSURE THAT FILL IS CONTAINED AND DOES NOT FLOW BACK INTO THE STREAM.
9. INSTALL STREAM STABILIZATION	INSTALL STREAM STABILIZATION AS SHOWN IN THE DETAIL.	THE RIP-RAP CHANNEL SHALL BE INSPECTED DAILY AND IMMEDIATELY UPON A RAINFALL EVENT.
10. REMOVE THE BYPASS DAM	REMOVE THE BYPASS DAM AND PUMP TO DIRECT STREAM TOWARD THE NEW CHANNEL.	THE EARTH BERM SHALL BE REMOVED FIRST DURING A LOW TO MODERATE FLOW SITUATION OR AS DIRECTED BY THE PROJECT MANAGER. STONE RIP-RAP SHALL BE PLACED IN THE AREA OF THE OPEN EXCAVATION OF THE EARTH BERM AND THE TEMPORARY BARRICADES SHALL BE REMOVED.
13. BRING THE AREA TO FINAL GRADE, SEED AND MULCH	ONCE THE CHANNEL IS BROUGHT TO FINAL GRADE AREAS NOT COVERED BY RIP RAP WILL BE SEED AND MULCHED TO PROMOTE VEGETATION GROWTH. FINISH ANY MISCELLANEOUS ITEMS.	DURING THE FILL PLACEMENT, CAREFUL ATTENTION SHALL BE GIVEN TO AVOID ANY FILL OR SEDIMENT MIGRATION TO THE STREAM. JOB COMPLETE

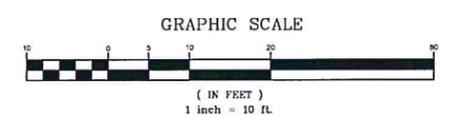


TEMPORARY DAM DETAIL
NTS



EXISTING CULVERT TO BE REMOVED

ON-SITE COORDINATOR:
PAT O'BRIEN
PHONE - (802)863-6222



DATE: 8/31/14	REVISION: Updated for Final Submittal	BY: BWC
SURVEY: OBCA	<input type="checkbox"/> RECORD DRAWING	DATE: 1-15-14
DESIGN: OBERS/OBCA	<input type="checkbox"/> FINAL	JOB#: 2011-52
DRAWN: BUB/SWC	<input type="checkbox"/> PRELIMINARY	FILE: 2011-52-53
CHECKED: PJP	<input type="checkbox"/> SKETCH/CONCEPT	PLAN SHEET #
SCALE: 1"=10'	<p>O'LEARY-BURKE CIVIL ASSOCIATES, PLC 1 CORPORATE DRIVE, SUITE 1 ESSEX, VT, 05759 PHONE: 878-5000 FAX: 878-8800 E-MAIL: boburke@olearyburke.com</p>	
<p>IRELAND PROPERTY Grove Street Burlington, VT</p>		<p>EROSION CONTROL PLAN CULVERT REMOVAL</p>
		EC5

